#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 21 October 2004 (21.10.2004)

**PCT** 

# (10) International Publication Number WO 2004/089374 A1

(51) International Patent Classification<sup>7</sup>: A61K 31/473, 9/00, A61P 15/10

(21) International Application Number:

PCT/GB2004/001627

(22) International Filing Date: 14 April 2004 (14.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10/413,022 10/621,964 14 April 2003 (14.04.2003) US 17 July 2003 (17.07.2003) US

(71) Applicant (for all designated States except US): VEC-TURA LTD [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): STANIFORTH, John, Nicholas [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB). MORTON, David [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB). TOBYN, Michael [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB). EASON, Stephen [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB). HARMER, Quentin [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB). GANDERTON, David [GB/GB]; 1 Prospect West, Chippenham, Wiltshire SN14 6FH (GB).

(74) Agents: GILL, Sian et al.; Venner, Shipley LLP, 20 Little Britain, London EC1A 7DH (GB).

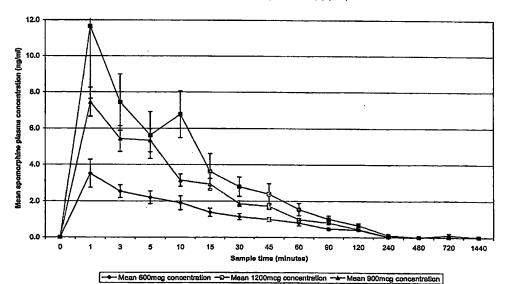
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

#### (54) Title: PHARMACEUTICAL COMPOSITIONS COMPRISING APOMORPHINE FOR PULMONARY INHALATION

## Comparison of mean plasma concentration +/- standard error of mean 600 µg (n=13), 900 µg (n=16) and 1200 µg (n=5)



(57) Abstract: The present invention relates to inhalable formulations of apomorphine or its pharmaceutically acceptable salts or esters for use in treating sexual dysfunction. The present invention also relates to methods for preparing the apomorphine formulations as well as to methods for treatment of sexual dysfunction using said formulations and inhalers including said formulations. The present invention further relates to the use of apomorphine in the manufacture of a medicament for treating sexual dysfunction.

### WO 2004/089374 A1



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.